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ALLEMAGNE	Stuttgart Eingang bei ZPL 17. SEP. 2003 Datum/Date 17. 09.03
Zeichen/Ref./Réf. 127 135	Anmeldung Nr./Application No./Demande n°./Patent Nr./Patent No./Brevet n°. 03290586.1-2411-
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COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

abstract

₩ title

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

1

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





EUROPEAN SEARCH REPORT

Application Number EP 03 29 0586

Category	Citation of document with in of relevant passa	dication, where appropriate, ages	Relev to clai	
X	US 6 236 726 B1 (DAM 22 May 2001 (2001-09 * column 2, line 8 -		1-7	H04B3/50 H04L25/03
A	US 6 212 229 B1 (SAI 3 April 2001 (2001-0 * abstract *	 INGER SHELDON NORMAN) 04-03)	1-7	
	-			
				TECHNICAL FIELDS SEARCHED (Int.Cl.7)
				H04L H04B
	The present search report has	been drawn up for all claims		
	Place of search	Date of completion of the search	·	Examiner
	MUNICH	1 September 20	03	Bauer, F
X:pa Y:pa do A:teo	CATEGORY OF CITED DOCUMENTS rticularly relevant if taken alone rticularly relevant if combined with anol current of the same category chnological background on-written disclosure	E : earlier paten after the filin ther D : document ci L : document cit	t document, but date ted in the application of the application of the research ted for other ressential ted for other research ted for other research ted for ot	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 03 29 0586

This annex lists the patent family members relating to the patent documents cited in the above–mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-09-2003

Patent docum cited in search r	ent eport	Publication date		Patent family member(s)	Publication date
US 6236726	B1	22-05-2001	NONE		
US 6212229	B1	03-04-2001	AU EP NO WO	3122900 A 1142171 A1 20012969 A 0036768 A1	15-08-2001
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ABSTRACT / ZUSAMMENFASSUNG / ABREGE

03290586.1

This invention (6) provides an attenuation arrangement (6) for ADSL signals fed from a remote point (11) wherein an attenuator (6) is inserted between a remotely located ADSL LT unit (7) and the line, the attenuation arrangement being for the purpose of reducing the mismatch of downstream power level of the ADSL LT unit (7) and downstream power level of other ADSL signals sharing the same cable bundle but fed from a more distant point (1,2).



Erweiterter Europäischer Recherchenbericht **Extended European Search Report** Rapport de Recherche Européenne Élargi

Anmelde-Nr.:

Demande no:

Application No.: 03 290 586.1

This application is covered by the extended European search report pilot project at present running within the European Patent Office, applied to all European patent applications filed as first filing and searched on or after 01.07.03. Under this project the EPO issues together with the search report an opinion on whether the application and the invention to which it relates meet the requirements of the EPC. This non-binding opinion is issued free of charge as a service. This opinion may be used as the basis for an informed decision as to whether it is desired to pursue the application further or not.

For further details of this pilot project, the applicant's attention is directed to the Official Journal edition 5/2003. If any further immediate questions or comments arise the EPO Customer Services: +31-70-340 4500 or +49-89-2399 2828 can be contacted.

The attached opinion reveals that the application or the invention to which it relates appear not to meet the requirements of the Convention (see comments on enclosed Form 2906).

If the applicant wishes to continue with this application the examination fee must be paid. Where appropriate amendments can be filed to address the objections raised in the opinion, thus shortening the overall procedure. If no amendments are filed, the opinion will be re-issued as the first official communication under Article 96(2) and Rule 51(2) EPC.

If the examination fee has already been paid and the right to the communication under Article 96(1) EPC has been waived for this application, the first official communication under Article 96(2) and Rule 51(2) EPC will be issued promptly.



Bescheid/Protokoll (Anlage)

Communication/Minutes (Annex)

Notification/Procès-verbal (Annexe)

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1

Anmelde-Nr.:

Demande n°.

Application No.: 03 290 586.1

The examination is being carried out on the following application documents:

Text for the Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT SE SI SK TR LI RO

Description, pages:

1-6

as originally filed

Claims, No.:

1-7

as originally filed

Drawings, sheets:

1/3-3/3

as originally filed

Comments:

Reference is made to the following documents: 1.

> D1: US-B1-6236726 D2: US-B1-6212229.

- a) The subject-matter of claim 1 refers to an attenuation arrangement for ADSL 2. signals. However, reference are made to a remotely located ADSL line termination unit, to a line, downstream power levels of the ADSL LT unit and of other ADSL signals, to a distant point... which are not part of the claimed arrangement. Thus, the arrangement is not defined in terms of its technical features. Therefore, the intended limitations are therefore not clear from this claim, contrary to the requirements of Article 84 EPC.
 - b) This objection could for example be overcome by claiming a system comprising the attenuator, the ADSL LT units and the cable or by claiming a method of

^{*} numbered by the examiner.



Communication/Minutes (Annex)

Notification/Proces-verbal (Annexe)

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Anmelde-Nr.: Demande nº:

Application No.: 03 290 586.1

reducing mismatch of downstream power level of an ADSL LT unit.

- a) Notwithstanding this lack of clarity, the subject-matter of claim 1 of the present 3. application does not involve an inventive step (Article 56 EPC) for the following reasons.
 - b) D1 (fig. 1) discloses an ADSL system comprising a cable bundle (14) fed from a distant point (10) to a receiving unit 40.
 - c) The problem solved by the invention can be seen as providing a second ADSL LT unit on the same cable bundle, closer to the unit 40.

The skilled man, confronted with this problem, would take a second ADSL LT unit and connect it to the cable. According to the teaching of D1 (abstract), he would know that the ADSL signals attenuate with the distance (col. 2, lines 8-17).

Although D1 is about the power level problems on the upstream signals, it is obvious that, in the case of a plurality of ADSL LT units, a similar problem would arise for the downstream signals, see also D2, abstract.

Therefore, the skilled man would have to place an attenuator between the second ADSL LT unit and the cable bund, in order for all the downstream signals to have the same levels, thereby arriving at the claimed invention.

- d) Therefore, the subject-matter of claim 1 of the present application does not involve an inventive step (Article 56 EPC).
- The subject-matter of claims 2-7 of the present application cannot be considered 4. as involving an inventive step, because it merely consists in the juxtaposition or association of known devices or characteristics functioning in their normal way and not producing any non-obvious working inter-relationship.
- 5. a) It is not at present apparent which part of the application could serve as a basis for a new, allowable claim. Should the applicant nevertheless regard some particular matter as patentable an independent claim including such matter should



Communication/Minutes (Annex)

Notification/Procès-verbal (Annexe)

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Application No.: 03 290 586.1 Demande nº:

be filed taking account of Rule 29(1) EPC.

- b) The applicant should also indicate in the letter of reply the difference of the subject-matter of the new claim vis-à-vis the state of the art (D1 to D2) and the significance thereof.
- c) New claims should be written in the two-part form, with the preamble based on the nearest prior art document (presently considered to be D1), in order to fulfill Rule 29(1) EPC. When possible, dependent claims should be used (Rule 29 (4)).
- d) To meet the requirements of Rule 27(1)(b) EPC, the documents D1 to D2 should be identified in the description and the relevant background art disclosed therein should be briefly discussed.
- e) Reference signs in parentheses should be inserted in the claims to increase their intelligibility, Rule 29(7) EPC. This applies to both the preamble and characterising portion (see the Guidelines, C-III, 4.11).
- f) When filing amended claims the applicant should at the same time bring the description into conformity with the amended claims. Care should be taken during revision, especially of the introductory portion and any statements of problem or advantage, not to add subject-matter which extends beyond the content of the application as originally filed (Article 123(2) EPC).
- g) In order to facilitate the examination of the conformity of the amended application with the requirements of Article 123(2) EPC, the applicant is requested to clearly identify the amendments carried out, irrespective of whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based. If the applicant regards it as appropriate these indications could be submitted in handwritten form on a copy of the relevant parts of the application as filed.